

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. – 32. Cancelled

33. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:

- an imaging unit operable to photograph the operation article which has a reflecting surface;
- a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit and generate a first trigger on the basis of the state information; and
- an image display processing unit operable to display on the display device a first object representing a movement locus of the operation article in response to the first trigger.

34. (New) The information processing apparatus as claimed in claim 33, wherein the first object representing the movement locus comprises a beltlike object,

- said image display processing unit represents the movement locus of the operation article by displaying the beltlike object on the display device so that a width of the beltlike object varies for each prescribed unit which includes at least one frame, and
- the width of the beltlike object increases as the frame is updated, and thereafter decreases as the frame is updated.

35. (New) The information processing apparatus as claimed in claim 34, wherein said image display processing unit displays a second object on the display device,

- said state information computing unit generates a second trigger when positional relation between the second object and the first object representing the movement locus of the operation article meets a predetermined condition, and
- said image display processing unit displays a predetermined effect on the display device in response to the second trigger.

36. (New) The information processing apparatus as claimed in claim 33, wherein said state information computing unit computes positional information as the state information of the reflecting surface after speed information as the state information of the reflecting surface exceeds a predetermined first threshold value until the speed information becomes less than a predetermined second threshold value, or computes the positional information of the reflecting surface after the speed information of the reflecting surface exceeds the predetermined first threshold value but before the reflecting surface deviates beyond a photographing range of said imaging unit,

said state information computing unit determines, when the positional information of the reflecting surface is obtained for three or more times, appearance of the first object representing the movement locus of the operation article on the basis of the first positional information of the reflecting surface and the last positional information of the reflecting surface, and

said state information computing unit generates, when the positional information of the reflecting surface is obtained for three or more times, the first trigger on the basis of the state information.

37. (New) The information processing apparatus as claimed in claim 33, wherein the first object representing the movement locus comprises a beltlike object,

said image display processing unit represents the movement locus of the operation article by displaying the beltlike object on the display device so that a width and a length of the beltlike object vary for each prescribed unit which includes at least one frame, and

the beltlike object increases in length as the frame is updated, and when the length becomes a predetermined length, the width of the beltlike object decreases as the frame is updated.

38. (New) The information processing apparatus as claimed in claim 33 further comprising a correction information acquisition unit operable to acquire correction information for correcting positional information as the state information of the reflecting surface, and

said state information computing unit computes corrected positional information by using the correction information.

39. (New) The information processing apparatus as claimed in claim 33, wherein the first object includes a plurality of objects.
40. (New) The information processing apparatus as claimed in claim 33, wherein said image display processing unit displays the first object representing the movement locus of the operation article on the display device after a lapse of a predetermined time from a generation of the first trigger.
41. (New) An information processing apparatus for displaying an image on a display device on the basis of a result of detecting an operation article which is grasped and given a motion by an operator, said information processing apparatus comprising:
- an imaging unit operable to photograph the operation article which has a plurality of reflecting surfaces;
 - a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit and determine which of the plurality of reflecting surfaces is photographed on the basis of the state information; and
 - an image display processing unit operable to display a different image on the display device depending on the determined reflecting surface.
42. (New) The information processing apparatus as claimed in claim 41, wherein the state information includes any one of area information, profile information, and ratio information indicative of a profile, or a combination thereof about the reflecting surface.
43. (New) An information processing apparatus for displaying an image on a display device on the basis of a result of detecting an operation article which is grasped and given a motion by an operator, said information processing apparatus comprising:
- an imaging unit operable to photograph the operation article which has a plurality of reflecting surfaces;
 - a state information computing unit operable to compute state information of each of the reflecting surfaces on the basis of an image by said imaging unit; and
 - an image display processing unit operable to display an image on the display device in accordance with the state information of the plurality of reflecting surfaces.

44. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:
- an imaging unit operable to photograph the operation article which has a reflecting surface;
 - an area information computing unit operable to compute area information of the reflecting surface on the basis of an image obtained by said imaging unit, and generate a trigger when the area information exceeds a predetermined threshold value; and
 - an image display processing unit operable to display a predetermined object on the display device in response to the trigger.
45. (New) The information processing apparatus as claimed in claim 44, wherein said image display processing unit moves the predetermined object in response to positional information of the reflecting surface, and
- a color of the predetermined object is transparent or translucent.
46. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:
- an imaging unit operable to photograph the operation article which has a reflecting surface;
 - a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit, and generate a trigger on the basis of the state information; and
 - an image display processing unit operable to display a character string on the display device, and wherein
- said image display processing unit displays a character string differing from the character string on the display device in response to the trigger.
47. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:

an imaging unit operable to photograph the operation article which has a reflecting surface;

a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit, and generate a trigger on the basis of the state information; and

an image display processing unit updates a background image in response to the trigger.

48. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:

an imaging unit operable to photograph the operation article which has a reflecting surface;

a positional information computing unit operable to compute positional information of the reflecting surface on the basis of an image obtained by said imaging unit; and

an image display processing unit operable to display a cursor on the display device and moves the cursor in accordance with the positional information of the reflecting surface.

49. (New) The information processing apparatus as claimed in claim 48, wherein, when the cursor is displayed so as to be overlapped on a predetermined object, said image display processing unit displays an image associated with the predetermined object on the display device.

50. (New) The information processing apparatus as claimed in claim 48, wherein said image display processing unit displays a character selected by the cursor on the display device.

51. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:

an imaging unit operable to photograph the operation article which has a reflecting surface;

a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit; and

a process fixing unit operable to fix execution of a predetermined process on the basis of the state information of the reflecting surface.

52. (New) An information processing apparatus for displaying on a display device an image on which a motion of an operation article which is held and given the motion by an operator is reflected, said information processing apparatus comprising:

an imaging unit operable to photograph the operation article which has a reflecting surface;

a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit; and

an image display processing unit operable to display a predetermined object on the display device when the state information that is obtained successively meets a predetermined condition.

53. (New) An information processing apparatus for displaying an image on a display device on the basis of a result of detecting an operation article which is grasped and given a motion by an operator, said information processing apparatus comprising:

an imaging unit operable to photograph the operation article which has a reflecting surface;

a state information computing unit operable to compute state information of the reflecting surface on the basis of an image obtained by said imaging unit; and

an image display processing unit operable to display on the display device a guide which instructs an operation direction and operation timing of the operation article and display an image on the display device in accordance with the state information.

54. (New) The information processing apparatus as claimed in claim 33, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.

55. (New) The information processing apparatus as claimed in claim 43, wherein the state information includes one or a combination of two or more being selected from speed

information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, number information, and positional information.

56. (New) The information processing apparatus as claimed in claim 46, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.
57. (New) The information processing apparatus as claimed in claim 47, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.
58. (New) The information processing apparatus as claimed in claim 51, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.
59. (New) The information processing apparatus as claimed in claim 52, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.
60. (New) The information processing apparatus as claimed in claim 53, wherein the state information includes one or a combination of two or more being selected from speed information, moving direction information, moving distance information, velocity vector information, acceleration information, movement locus information, area information, and positional information.

61. (New) An operation article which is operated by the operator of the information processing apparatus as set forth in claim 41,
wherein said operation article is provided with a plurality of reflecting surfaces.
62. (New) An operation article which is operated by the operator of the information processing apparatus as set forth in claim 43, wherein said operation article is provided with a plurality of reflecting surfaces.